

Sub 5  
a rectangular frame for movably supporting the vibrating diaphragm and having a through hole in its center;

CH Cont.  
a magnetic circuit formed by a top plate having a rectangular shape and having a through hole in its center, a plate-shaped magnet having a rectangular shape and having a circular through hole in its center, and a back plate having a rectangular shape and having an integrally formed upright pole on its center,

10 wherein the top plate, the plate-shaped magnet and the back plate each has a width that is equal to or narrower than [that] a width of the rectangular frame in its shorter axis, and

wherein the top plate, the plate-shaped magnet and the back plate each has a length that is equal to or shorter than a length of the rectangular frame in its longer axis.

Sub E2  
6. (Twice Amended) A speaker unit comprising:

an elliptical vibrating diaphragm;

CH 5  
a cylindrical voice coil having a circular cross-section and secured at one end thereof on a center of the elliptical vibrating diaphragm;

an elliptical frame for movably supporting the vibrating diaphragm and having a through hole in its center;

a magnetic circuit formed by a top plate having a rectangular shape and having a through hole in its center, a plate-shaped magnet having a rectangular shape and having a circular through

Sub E 2 10  
hole in its center, and a back plate having a rectangular shape and having an integrally formed upright pole on its center,

wherein the top plate, the plate-shaped magnet and the back plate each has a width that is equal to or narrower than [that] a width of the elliptical frame in its shorter axis, and

wherein the top plate, the plate-shaped magnet and the back plate each has a length that is equal to or shorter than a length of the elliptical frame in its longer axis.

10. (Twice Amended) A speaker unit comprising:

an elliptical vibrating diaphragm;

a cylindrical voice coil having a circular cross-section and secured at one end thereof on a center of the elliptical vibrating diaphragm;

5 [a] an elliptical frame for movably supporting the vibrating diaphragm and having a through hole in its center;

C3  
a magnetic circuit formed by a top plate having a rectangular shape and having a through hole in its center, a plate-shaped magnet having a rectangular shape and having a circular through hole in its center, and a back plate having a rectangular shape and having an integrally formed upright pole on its center,

10 wherein the top plate, the plate-shaped magnet and the back plate each has a width that is equal to or narrower than [that] a width of the elliptical frame in its shorter axis, and

C3  
cont.

wherein the top plate, the plate-shaped magnet and the back plate each has a length that is equal to or shorter than a length of the elliptical frame in its longer axis.

Please add new claims 14-30 as follows:

Sub D2

--14. The speaker unit of claim 1, wherein the plate-shaped magnet includes a first plate-shaped magnet having a rectangular shape and having a circular through hole in its center and a second plate-shaped magnet on an opposite side of the back plate from the first plate-shaped magnet, the second plate-shaped magnet having a circular hole through its center.

C4

15. The speaker unit of claim 1, wherein the magnetic circuit has the same shape as the rectangular frame.

Sub G

16. The speaker unit of claim 6, wherein the plate-shaped magnet includes a first plate-shaped magnet having a rectangular shape and having a circular through hole in its center and a second plate-shaped magnet on an opposite side of the back plate from the first plate-shaped magnet, the second plate-shaped magnet having a circular hole through its center.

Sub E3

~~17. The speaker unit of claim 6, wherein the magnetic circuit has an elliptical shape.~~

18. The speaker unit of claim 10, wherein the plate-shaped magnet includes a first plate-shaped magnet having a rectangular shape and having a circular through hole in its center and a second plate-shaped magnet on an opposite side of the back plate from the first plate-shaped magnet, the second plate-shaped magnet having a circular hole through its center.

19. The speaker unit of claim 10, wherein the magnetic circuit has an elliptical shape.

C4  
CONTINUED  
20. A speaker unit comprising:

an elliptical vibrating diaphragm;

a cylindrical voice coil having a circular cross-section and secured at one end thereof on a center of the elliptical vibrating diaphragm;

5 a rectangular frame for movably supporting the vibrating diaphragm and having a through hole in its center;

a rectangular magnetic circuit formed by a top plate having a rectangular shape and having a through hole in its center, a plate-shaped magnet having a rectangular shape and having a circular through hole in its center, and a back plate having a rectangular shape and having an  
10 integrally formed upright pole on its center,

wherein the top plate, the plate-shaped magnet and the back plate each has a width that is narrower than a width of the rectangular frame in its shorter axis.

Sub G 21. The speaker unit of claim 20, wherein the plate-shaped magnet includes a first plate-shaped magnet having a rectangular shape and having a circular through hole in its center and a second plate-shaped magnet on an opposite side of the back plate from the first plate-shaped magnet, the second plate-shaped magnet having a circular hole through its center.

Sub D3  
C4 cont. 22. The speaker unit of claim 20, wherein the top plate, the plate-shaped magnet and the back plate each has a width that is equal to or narrower than a width of the elliptical frame in its shorter axis, and

wherein the top plate, the plate-shaped magnet and the back plate each has a length that is equal to or shorter than a length of the elliptical frame in its longer axis.

Sub E6 23. A speaker unit comprising:  
an elliptical vibrating diaphragm;  
a cylindrical voice coil having a circular cross-section and secured at one end thereof on a center of the elliptical vibrating diaphragm;

5 an elliptical frame for movably supporting the vibrating diaphragm and having a through hole in its center;

an elliptical magnetic circuit formed by a top plate having a rectangular shape and having a through hole in its center, a plate-shaped magnet having a rectangular shape and having a

Sub 10  
E6  
circular through hole in its center, and a back plate having a rectangular shape and having an upright pole on its center,

wherein the top plate, the plate-shaped magnet and the back plate each has a width that is narrower than a width of the elliptical frame in its shorter axis.

24. The speaker unit of claim 23, wherein the top plate, the plate-shaped magnet and the back plate each has a width that is equal to or narrower than a width of the elliptical frame in its shorter axis, and

5 wherein the top plate, the plate-shaped magnet and the back plate each has a length that is equal to or shorter than a length of the elliptical frame in its longer axis.

25. A speaker unit comprising:  
an elliptical vibrating diaphragm;  
a cylindrical voice coil having a circular cross-section and secured at one end thereof on a center of the elliptical vibrating diaphragm;  
5 a rectangular frame for movably supporting the vibrating diaphragm and having a through hole in its center;

a magnetic circuit formed by a top plate having a rectangular shape and having a through hole in its center, a first plate-shaped magnet having a rectangular shape and having a circular through hole in its center, a back plate having a rectangular shape and having an integrally

10 formed upright pole on its center, and a second plate-shaped magnet on an opposite side of the back plate from the first plate-shaped magnet,

wherein the top plate, the plate-shaped magnet and the back plate each has a width that is narrower than a width of the rectangular frame in its shorter axis.

26. The speaker unit of claim 25, wherein the top plate, the plate-shaped magnet and the back plate each has a width that is equal to or narrower than a width of the elliptical frame in its shorter axis, and

wherein the top plate, the plate-shaped magnet and the back plate each has a length that is equal to or shorter than a length of the elliptical frame in its longer axis.

27. The speaker unit of claim 25, wherein the magnetic circuit has the same shape as the rectangular frame.

28. A speaker unit comprising:

an elliptical vibrating diaphragm;

a cylindrical voice coil having a circular cross-section and secured at one end thereof on a center of the elliptical vibrating diaphragm;

an elliptical frame for movably supporting the vibrating diaphragm and having a through hole in its center;

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E8

10 a magnetic circuit formed by a top plate having a rectangular shape and having a through hole in its center, a first plate-shaped magnet having a rectangular shape and having a circular through hole in its center, a back plate having a rectangular shape and having an upright pole on its center, and a second plate-shaped magnet on an opposite side of the back plate from the first plate-shaped magnet,

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cont

wherein the top plate, the plate-shaped magnet and the back plate each has a width that is narrower than a width of the elliptical frame in its shorter axis.

29. The speaker unit of claim 28, wherein the top plate, the plate-shaped magnet and the back plate each has a width that is equal to or narrower than a width of the elliptical frame in its shorter axis, and

wherein the top plate, the plate-shaped magnet and the back plate each has a length that is equal to or shorter than a length of the elliptical frame in its longer axis.

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30. The speaker unit of claim 1, wherein the magnetic circuit has an elliptical shape.--